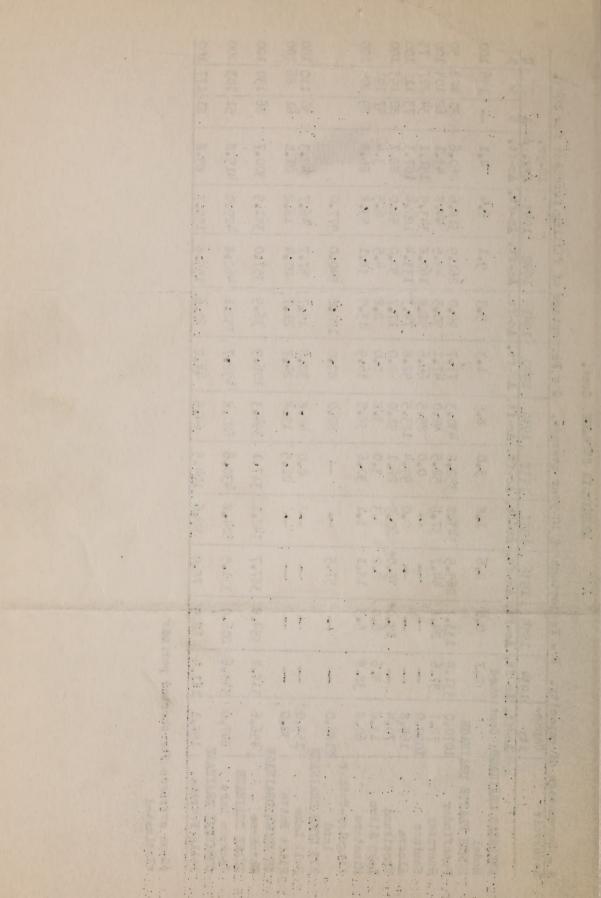
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Do not assume content reflects current scientific knowledge, policies, or practices.



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SNOW SURVEYS AND IRRIGATION WATER FORECASTS

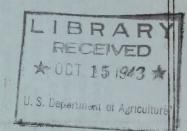
K31Fsm

for the

MISSOURI and ARKANSAS

DRAINAGE BASINS

February 1, 1943





Snow on the mountain tops Assures the harvest of bounteous crops.

Issued by the
United States Department of Agriculture
Soil Conservation Service
Division of Irrigation
In Cooperation with
The Colorado Agricultural Experiment Station
Colorado State College
Fort Collins, Colorado

February 10, 1943

## STRACTION COLOR MATERIAGIST AND PARKET SALE

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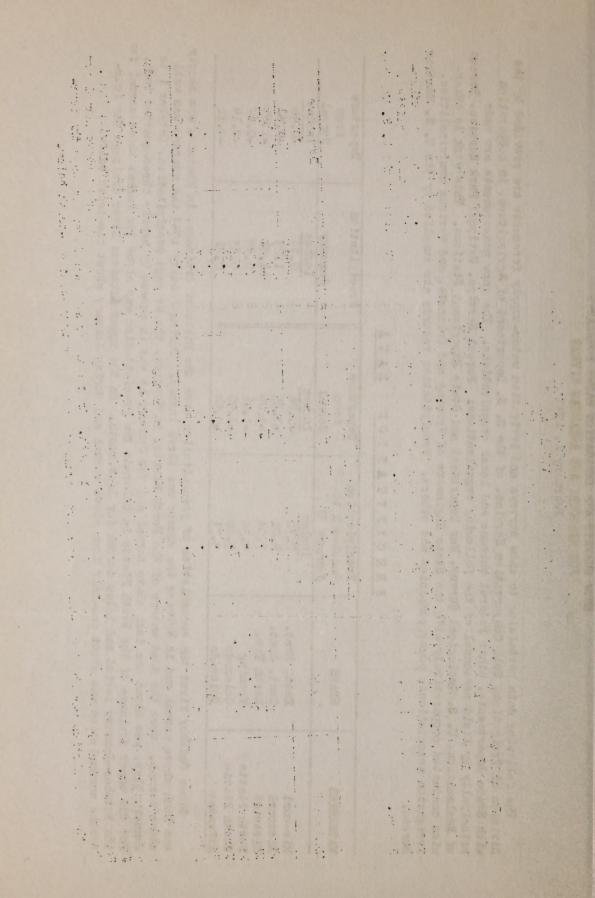
# OW SURVEYS AND IRRIGATION WATER FORECASTS FOR MISSOURI AND ARKANSAS RIVERS February 1, 1943

with State departments, other Federal bureaus and local organizations. The snow measurements are made principally by field personnel of the following organizations: Forest Service, Mational Park Service, Bureau irrigation associations, power companies and others. Precipitation records are supplied by the U. S. Weather The following data pertaining to snow surveys and irrigation water-supply forecasts are provided by the of Reclamation, U. S. Geological Survey, War Department and State Experiment Stations. This work is otherwise conducted cooperatively with the State Engineers of Wyoming and Colorado, and various municipalities, Division of Irrigation, Soil Conservation Service, of the U. S. Department of Agriculture, in cooperation

PRECIPITATION DATA

and the same of th	and the state of t	The state of the s	the same of the sa	The same of the sa	the same and the s
		Precipitation	Departure	Precipitation	Departure
WATERSHED	STATE	October 1 to	from		from
		January 31	Normal	January	Normal
		Inches	Inches	Inches	Inches
Missouri	East. Mont.	2.72	±0.24	66.0	94.0+
Missouri	Cent. Mont.	4.01	+0.85	1.29	9.0+
Mi ssouri	North Wyo.	70.7	+3.09	1.81	+1.05
North Platte	Wyoming	4.38	+1,06	0.89	40.68
South Platte	Colorado	5.60	+1.90	0.53	#T*0-
Arkansas	Colorado	3.71	+0.54	14.0	-0.12
Secretary of the second					

For the upper drainage of the South Platte in Colorado the precipitation was about two inches above normal for the October-January period and below normal for last month. On the upper Arkansas River drainage the four-Since October first the accumulation of precipitation over the Missouri drainage, in Montana, was nearly above normal. Over the head waters of the North Platte, in Wyoming, the average precipitation, October 1 to January 31st, was about one inch above normal and for January it was in excess by nearly three-quarter inch. one inch above normal and in Wyoming the excess was three inches. During January 1943 the average was well months accumulation was about one-half inch above normal and during January about one-tenth below.



SUMMARY OF FEBRUARY 1 SNOW SURVEYS AND COMPARISON OF DATA

WITH THAT OF PREVIOUS YEARS BY WATERSHEDS

							Number				1943 Water Content	ntent in
	Sno	Snow Depth	th.	Water	. Content	ent	courses	Snow	Density		Percent of	
WATERSHEDS	Eight			Eight			in	Eight			Eight	
	Year Ave.*	1942 1	943	Year Avg.*	1942	1943	average	Year Ave.*	1942	1943	Year	1942
	In.	In	In	In.	In	In.		ent	Percent	Percent	0	
MISSOURI RIVER			-									
Jefferson River	70-7	72.0	ראון		C	10.7	ч	70.	TC C	36	160	ראר
Madi son River	1年。5	上記	74.5		N	720	700	27	3 %	202	103	020
Gallatin River	28,0	33.2	30.05		0	11,1	٦, ١,	17.	12	200	156	159
Missouri River**	22,6	22.5	36.0	5.4	6.1	9.6	口	さ	27	27	178	157
Marias River	34.0	17.0	54.0		90	15.4	Н	22	27	59	153	335
Shoshone River	1.64	36.6	93.1	13.8		27.9	Н	28	56	30'	8,50	287
Bighorn River	33.7	23.5	0000	8.4		16.5	10	25	27	28	196	337
North Platte River	46.8	42.2	52.3	11.7		13.9	03	25	23	27	119	145
Sweetwater River	34.8	23.3	55.6	8.2		14.9	2	5,4	16	27	182	192
Laramie River		25.6	36.3	9.9		10.3	0	が	22	28	156	187
South Platte River***		20,6	23.3	304		5.5	m	18	18	77	162	149
Grow Greek	13.8	14.6	9.1	200	2.6	100	Н	8	103	8	75	69
Foudre River	-	25.7 3	5.3	6.7		0.00	7	25	8	28	146	188
ver		34.2	7.8	20,00		13.6	2	26	22	28	139	184
		31.6	1.8	6.6		12,2	-	23	7,7	59	185	160
Boulder Greek		1703	8,0	6,1		7.6	N	28	25	3/4	154	214
Clear Creek	37.0	31.8	47 e.1	03,03		12.6	2	54	8,	27	143	197
ARKANSAS BIVER	000	77 0 70		<u>u</u>	rc rc	7	100	20	S	20	201	
	67.7	J .	•	0		30	0	3	3	J	011	7(7

<sup>\*</sup>Some for shorter periods. \*\*!

r \*\*\*Above Denver, Colo.

<sup>\*\*</sup>Headwaters of Missouri River \*\*\*

# WATER SUPPLY OUTLOOK

content is more than three times that of a year ago. Over this drainage area the soil moisture is approxipercent the figures of February first last year. The largest increase was on Marias Pass where the water On the Wissouri and its tributaries, the water content of the snow now exceeds by more than 50 mately normal and reservoir storage a half more than last year at this time.

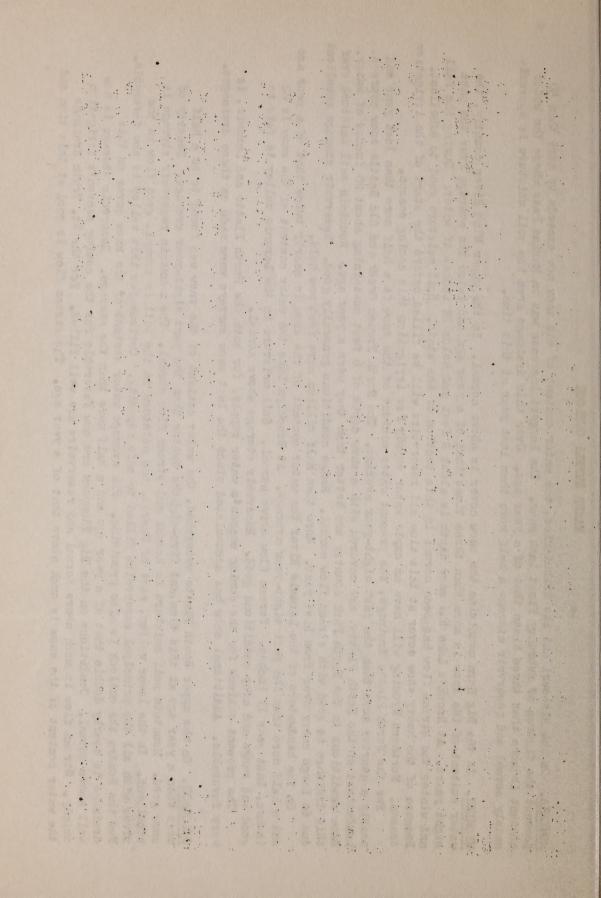
Because of the heavy snow cover at this time all reservoirs will be filled before the start of the irrigation eight years. At Brook's Lake the snow depth is about 8 feet and holds 28 inches of water. During the fall and winter the stream flow has been normal in this section of the state. Soil moisture good to excellent. water content of the snow is more than three times that of a year ago and twice the average over the past In the Big Horn mountains the snow cover is above normal. In the upper Wind River country, the season. Northern Wyoming will have an ample water supply for irrigation this coming season.

this drainage is good with stream flow normal. Range conditions generally good. Reservoir storage excellent nearly a quarter more than the past eight-year average. The North French Greek and Old Battle snow courses, headwaters of the North Platte, are covered with a snow depth of 6 feet containing about 20 inches of water. Snow conditions in the North Park country are better than they were a year ago. Mountain soil moisture over For the North Platte drainage, the present water content of the snow is a half more than last year and due to large carry over from last year. More than half million acre feet now held.

On the headwaters of the Laramie River the water content of the snow is nearly twice that of a year ago and a half more than the past eight-year average. At Brooklyn Lake the water content of the snow is 22 inches, last year 11 inches. Stream flow above normal. Soil moisture in the Laramie valley is fair to good and range and crop conditions good. Reservoir storage above normal.

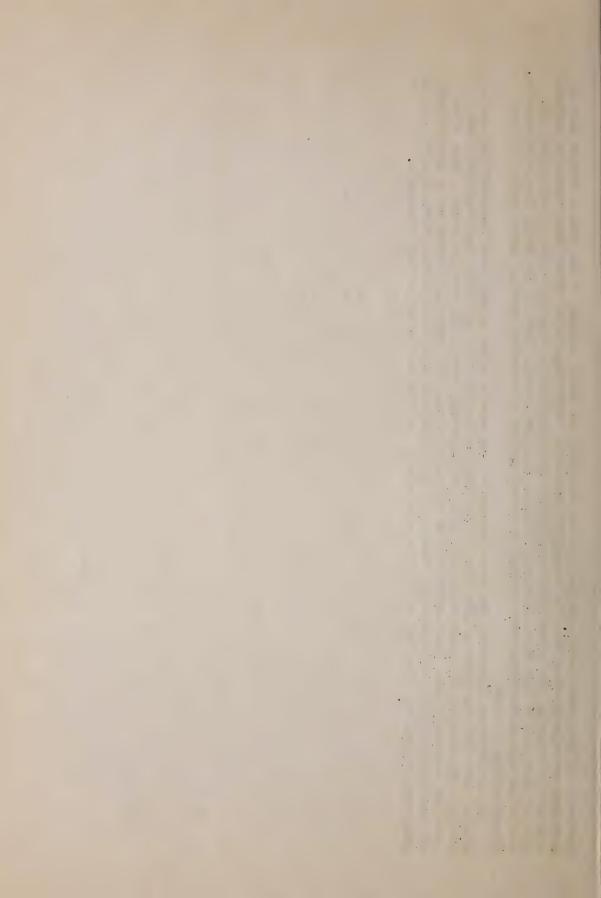
very favorable. Additional snow has accumulated since the last snow surveys were made on these drainages. The present outlook for the coming season's water supply, for both the North Platte and Laramie, is

river with all the principal reservoirs filled to safe capacity. Outlook for this valley is now favorable. the water content of the snow is much above that of a year ago. The stream flow is good at this time and drainage is nearly double that of a year ago and a half more than the average. Reservoir storage is now Mountain soil moisture is normal and stream flow normal. The mountain reservoir storage is well above normal. Conditions on the Big Thompson are now favorable for the coming season's irrigation supply. Stream flow is much above normal and reservoirs are well filled. For the St. Vrain drainage more than a year ago at this time, and five-eighths better than the past eight-year average. Density of excellent. In the lower valley, east of Denver, the moisture in the soil is normal, good flow in the On the upper South Platte watershed, the water content of the snow was found to be a half For the Poudre the outlook is also promising. The average water content of the snow cover on this snow good.



that of last year at this time. Reservoir filling is above normal. For all the South Platte tributaries, last year and also greater than the average by one-half. Conditions on the Clear Greek drainage indicate reservoir filling above normal. On the Boulder watershed the water content of the snow is double that of conditions are now favorable for a normal or better run-off this coming season. Areas below 7000 feet a favorable outlook. The present snow cover holds about double the amount of water in comparison with elevation bare of snow.

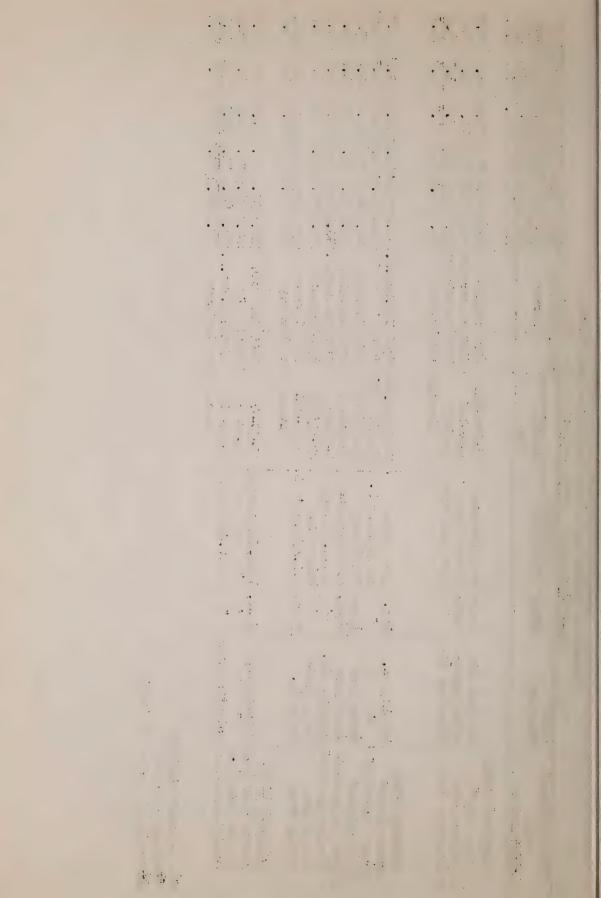
of river water left the state unused. Storage is now accomplished in the new John Martin Rese voir on the principal reservoirs were practically full at the close of the 1942 irrigation season and a large amount Some of the On the Arkansas watershed, the water content of the snow is about a half more than last year and a quarter more than the average. The flow of the river during the fall and winter has been well above main river at Gaddoa. The 1943 irrigation water supply for this valley is now very favorable. normal, soil moisture and range conditions good, and reservoir storage the best in years.



MISSOURI AND ARKANSAS RIVER WATERSHEDS Summary of Federal and State Cooperative Snow Surveys

	SI	sued F	Issued February 10, 1947, at Fort Collins, Colo.	at Fort Coll:	ins, C	olo.					
Main Drainage			Location		Elev.	Elev. National	Feb. ]	Snow (	Feb. 1 Snow Cover Measurements	asureme	ents
and	Drainage	State	Locality	-d7		Forest	Av. Sr	now Dept	Av. Snow Depth Av. Water Content	ter Cor	tent
No. Snow Course				ti on			Av @	1942 191	Av.@ 1942 1943 Av. @ 1942 1943	1942	1943
JEFFERSON RIVER							In.	In. Ir	In. In. In.	In.	In.
6 Camp Creek*	Red Rock Cr.	Idaho	6mi .N. Spencer	21-13N-36E	9890	Targhee	25.8	山 10 62	8 2	6.9	0
10 Gibbons Pass	N.Fk.BigHole	Mont.	Gibbons Pass	4-25-19W	7100	7100 Bitterroot 48.6 49.3 78.6 13.4	148.6 1	19.3 78.	6 13.4	13.4	23.4
30 Pipestone Pass	Fipestone Cr.	=	Pipestone Pass	11-1N-7W	7200	Deer Lodge	16.0 1	17.4 23	8 3.2	3.7	4.9
				Average	for D	rainage	30.1	32.0 48	1 7.5	0.8	12.7
MADISON RIVER											
2 Aster Creek*	Firehole R.	Wyo.	Lewis Lake	44.3N110.6W	0022	700 Yel .Nat.P.	148.741	13.3477	中一十二十	13.24	27.0+
8 Lewis L.Divide*	=	=	3mi.S.Levis L.	44.2N110.7W	1900	= ==	68.0+5	30 de 408	8+ 21.7+	16.7+	42.0+
3 Big Springs* South Fork	South Fork	Idaho	Big Springs	34-1411-44图	6500	6500 Targhee	48.2	16.6 82.	4 12.1	10.4	23.9
16 West Yellowstone	South Fork	Mont.	W.Yellowstone	34-13S-5E	0029	d	32.6	31.0 61.	0 7.5	9.9	16.5
Twenty-one Mile* Greyling Cr.	Greyling Cr.	=	8mi.S.Gallatin	1-118-5E	7150	Ω.	10.04	11.0 71.	. 40.0 41.0 71.0 10.1	9.1 20.8	20.8
Hebgen Dam	Cabin Creek	=	Hebgen Dam	22-11S-3E	6550	6550 Gallatin	35.5 30.0	0.047.0	0 8.2	6.0	12.2
Valley View	Denny Cr.	Idaho	5mi.E.Henry's L.	7-15N-44E	6500	Targhee	1	-	1	1	1
				Average f	for Dr	for Drainage	長。5 41 -1	11-1 74-5	5 12.3	10.3	23.7
GALLATIN RIVER					-						
Mystic Lake No.1 Bozeman Cr.	Bozeman Cr.	Mont.	12mi.SE.Bozeman	31-38-7五	0099	6600 Gallatin	23.5 3	2.0 26.	9 5.4	9.9	7.5
Mystic Lake No.2	=	=	=	31-38-7国	0099		20.4 2	6.5 21.	8 4.5	5.5	5.0
Twenty-one Mile Gallatin River	Gallatin River	=	8mi.S.Gallatin	hallen P	7150	t L	50 50 50 50 50 50 50 50 50 50 50 50 50 5	10.07 0.14 0.04	0 10.1	1.6	20.8
				Average	or Dr	ior Drainage	28.0	3.2 39.	1.9 6.1	0.7	11.1

@Average for period of record \*On adjacent drainage

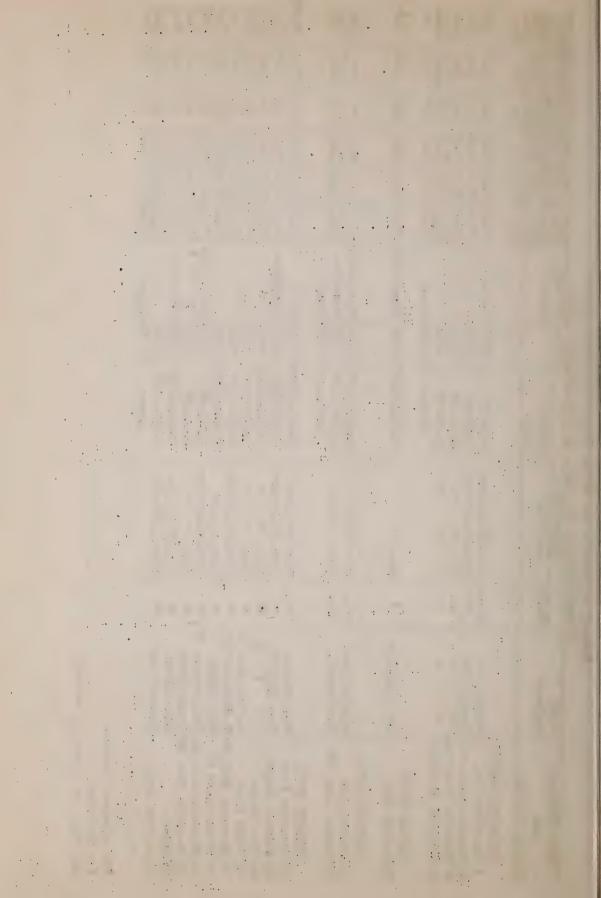


MISSOURI AND ARKANSAS RIVER WATERSHEDS

Summary of Federal and State Cooperative Snow Surveys Issued February 10, 1943, at Fort Collins, Colo.

100	Content	1943	In.	FC.	8	11.0	13.5	9.6	15.4		19.3	27.9		28.0E	10.1	14.8	15.5	12.4	27.9	12.8	13.6	14.5	15.1	16.5	
A tromomorphisms	2 1	iller of	In.	200	5.1	7.6	03	6.1	4.6		1	9.7		13.9	100	3.3	7.	2.4	7.6	3.6	す。力	4.3	200	6.4	
Correct Mo	AV	Av.®	In.	3.0		6.3		5.4	10.1		1	13.8		17.3	19.			6.2	13.8	6.1	6.7	7.7		8.4	
S'now Co		1943	In.	23.0		142.0	1,77.0	36.0	54.0		65.3	93.1	**************************************	0.90		, R	57.6	46.3	93.1	48.1	55.8	53.3	54.7	8	
-	Snow	11942	In.	3 11,0		3 27.0		22.5	17.0		1	36.6		52.0	2 12.0			17.2						23.5	
Helt.	Av.	Avo	In.	12.8	20.1	25.8	30.9	22.6	34.0		1	120.7		8.09	20.2	30.2	34.9	27.1	149.7	25.0	3106	31.4	26.1	33.7	_
, Colo.	-			Helena	# 0	=	=	for Drainage	Glacier MP		Vel. Mat. P.	9200 Washakie	for Drainage	Teton	Washakie	-	=	#	==	Shos.I.E.	H H H	Washakie	=	for Drainage	
Elins,	1			6200	6250	0089	0008	or D	5250		001/	920	년 보인 -	0090	8500	9500	0006	7500			9500	8750	8000	or Di	
s, at Fort Collins,	Descrip-	tion		2-811-511	13-8M-6W	13-8M-6W		Average f	48.3N113.4W		12-52N-110W	23-44M-110W	Average	29-44N-110W	3-31M-101W	23-31N-101W	13-301-1014	7-42N-109W	23-44N-110W	26-1N-4W	23-25-31	27-42N-108W	1-43M-107W	Average f	
February 10, 1943, at	Locality			11mi.SW.Helena	17mi.SW.Helena	=======================================	=======================================		Summit		Sylvan Pass	Brooks Lake		Togwotee Pass	13mi.SW.Lander	15mi. " "	Tomi. " #	16mi.IW.Dubois	Brooks Lake	27mi.MW.Lander	18mi. " "	gmi.MW Dubois	12mi.M.Dubois		
Tesmed	State			Mont.	=	=	=		<b>#</b>		Wyo.	Wyo.		Wiro	<b>=</b>	=	=	=	=	20	=	=	=		
Local	Drainage			Tenmile Cr.	Tenmile Cr.	= 0	=	,	Two Medicine		Middle Creek	Shoshone R.		Wind River	Popo Agie R.	=	L. Popo Agie R.	#2 Sheridan Cr.	Wind River	St.Lawrence Cr.	Trout Creek	Wind River	Horse Creek		
Wain Drainage	and	No Snow Course	MISSOURI RIVER	6 Chessman Res.	41 Tenmile Cr.Lower	42 Tenmile Cr. Middl	43 Tenmile Cr. Upper	MARIAS RIVER	20 Marias Pass	SHOSHOWE RIVER	32 Sylvan Pass	50 Brooks Lake #3*	BIGHORN RIVER	12 Togwotee Pass	45 Sawmill Glade	6 Blue Ridge			50 Brooks Lake #3   Wind River	1 St.Lawrence R.S.	2 Mosquito Park RS Trout Creek	53 DuNoir	4 T-Cross Ranch		
1		A			#.	<b>≠</b> .	#		ณ		2	5		H	#	<b>;</b>	7	#	IL!	10	50	15,	50		

\*On adjacent drainage E - Estimated @Average for period of record



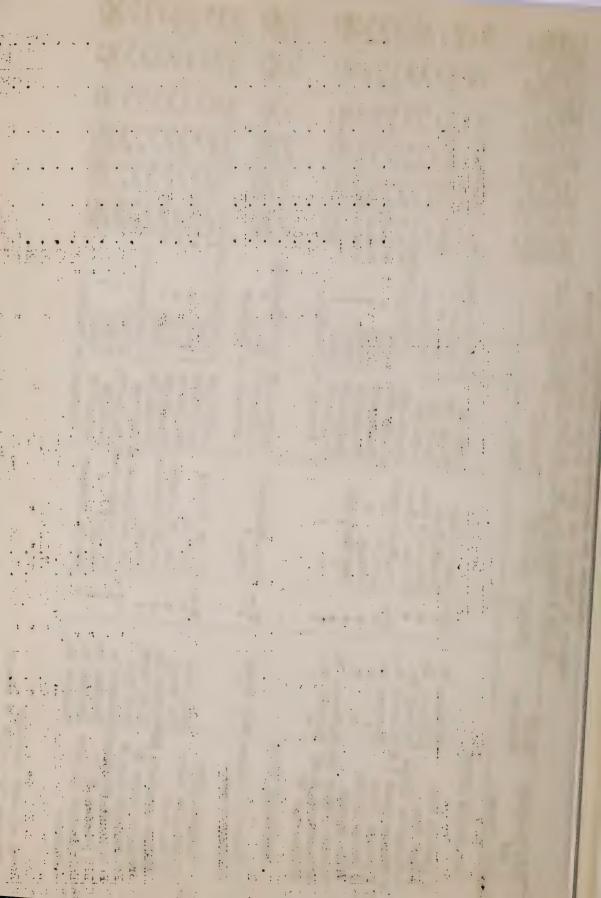
MISSOURI AND ARKANSAS RIVER WATERSHEDS

Summarry of Federal and State Cooperative Snow Surveys Issued February 10, 1943, at Fort Collins, Colo.

1			Tasmed r	February 10, 1945,	at Fort Col.	١,				- 1		
	Main Drainage	Local		Location		Elev.	al	Feb. 1	Snow Co.	Cover Mea	Measurements	nts
		Drainage	State	Locality	Descrip-		Forest	Av. Snow	w Depth	Av. Water		Content
No	No Snow Course				tion			6)	1942 1943	Av.®	1942	1943
	NO. PLATTE RIVER							In. In.	In.	In.	In.	In.
											1	1
<del></del>	Cameron Pass	Michigan Cr.	Colo.	Cameron Pass		10300	velt	40.8 37	9 48 8	11.0	M =	13.8
1	Park View	Illinois Cr.	= 1	/mi .SE Rand	24-28-183	9200	ct ct				† · ·	-
00	Columbine Lodge	Grizzly Cr.	=	Rot. Ears Pass	21-5N-82W	9300		53.8 51	51.9 64.4	13.3	11.7	17.2
62	62 Willow Creek P.*	Illinois Cr.	=	Willow Cr. Pass	1-4N-78W	9500	Arapsho	-			7.1	1
1	Bottle Creek	Encapent Cr.	Wyo.	7mi.SW.Encmpmnt	24-14N-85W	8200	MedicineBow71.6		39		500	10.1
DG.	_	=	=	lomi.W. "	27-14M-85W	0006	=					12.7
0		==	=	12mi.W. "		9800	=	63.8 63		16.9		21.5
37	North French Cr.	N.French Cr.	=	Cont/Saratoga	- Live video	10200	=	62.6 49		16.6		19.5
38	N. Barrett Cr.#2	Barrett Cr.	±	=	30-16N-80W	9,100	=	98 36	36.1 49.3	12.1	-	11.0
39	Ryan Park #2	=	=	<b>#</b>	34-16N-81W	8400	=	33.2 29	29.3 26.8		9.9	5.3
1					Average for		Drainage		-	1-		13.9
	SWEETWATER RIVER				***************************************	den vertebende						
20	Amount on Mondows	Pool Crook	Mar	John Till Lander	MOUTUNOZOL	0000	Wachok's	7 7 7	24.1 52.6	0	7.7	74.7
けって	47 South Pass* " " "	# # #	2 =		13-30N-101W	9000			57	1 1/2		15.5
-			-		Average for	r Drainage		M	23.3 55.6	1	3.7	14.0
	LARAMIE RIVER					***********		-		-		
2	Brooklyn Lake	Nash Fork	Wyo	7mi .WW.Cntennl		-	MedicineBow41.6	-	35.5 51.9		10.7	22.1
H	Fox Park	Fox Creek	=	Fox Park	21-1311-78W	9200	=		8 24.5	5.3	5.1	6.1
34	Pole Mountain #2*Soldier Cr.	Soldier Cr.	=	10mi.SE.Laramie	35-15N-72W	8700						1.03
35	Libby Lodge #2	Libby Creek	=	3mi.NW.Ontennial	29-16N-78W	8700		22.5 18	18.5 38.3	13.		10.9
36	Hairpin Turn #2	Nash Fork	=		24-16N-79W	9500	=	25.4 20	2 43.0			12.2
#	W.Port.G-P.TunnelLaramie R.	Laranie R.	Colo.		7-8N-75W	8600	Roosevelt				3.1	6.1
20	Deadman Hill*	Deadman Cr.	= 1	Feather.	5W	10200	= =			200		11.6
7 0			= =	Smi SW III		10200						100
88	Koach	Lacarde Cr.	=	Knepuera MM . tms	Average for	or Drai	Drainage		25.6 46.3	199	200	10-3
					•			-		}		

\*On adjacent drainage 

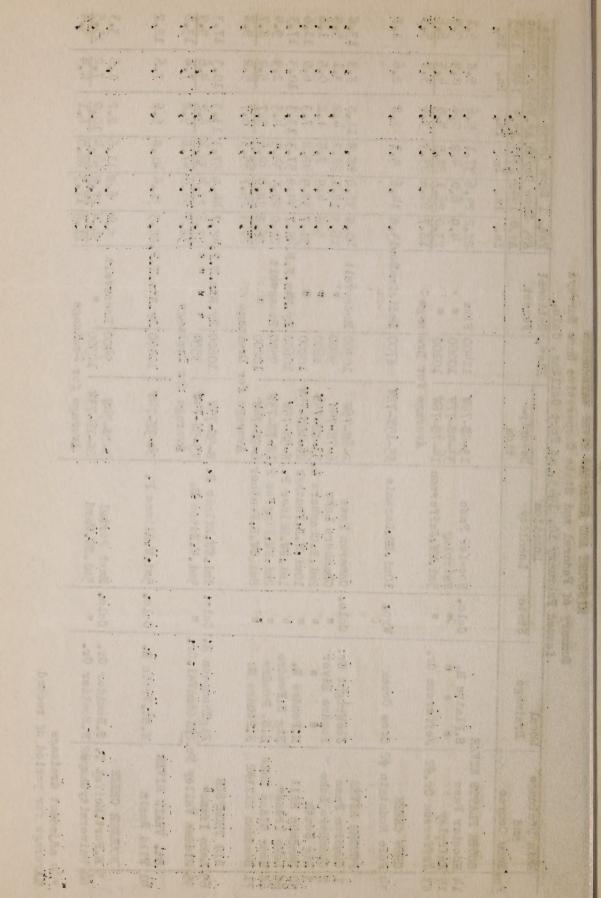
&Average for period of record



Summary of Federal and State Cooperative Snow Surveys

			sned Fe	Issued February 10, 1943, at Fort Collins, Colo.	at Fort Col	lins, C	olo.						
	Main Drainage	Local		Location		Elev.	Elev. National	Feb.	Feb. 1 Snow		er Mea	Cover Measurement	nts
	and	Drainage	State	Locality	Descrip-		Forest	Av. S	D Won	epth 1	Iv. Wat	Av. Snow Depth Av. Water Content	tent
No	No Snow Course				tion			Av.®	1942	Av.@ 1942 1943 Av.®	IV @	1942   1943	1943
	SOUTH THE PARTY BATT	Q						In.	In.	In. In. In. In.		In.	In.
-	SOUTH FLATTE KIVER	H				1		1	,		,		
1,4	Hoosier Pass	S.Platte R.	Colo.	Hoosier Pass	13-85-78W	11400 Fike	Pike	28.2	28.2 29.6 37.1	37.1	2.0	200	9.1
CT	Fairplay		= 1		22-06-05	100001		4.0	0.0	4.2	9.0	5.0	0.0
83	Jefferson Cr.#2	Jefferson Cr.	=	5mi.NW.Jefferson	14-78-76W	10100	=	23.0	23.0 26.1 28.5	28.5	0.4	4.5	9.9
					Average f	for Draine ge	na.ge	18.7	20.6	23.3	3.4	3.7	5.5
45	CROW CREEK 34 Pole Mountain #2 Crow Creek		Wyo.	10mi.SE.Laramie	35-15W-72W	8700	8700 WedicineBowl3.8 14.6	113.8	14.6	9.1	03	2.6	1.8
,								,					
-	POUDRE RIVER												
٦	Cameron Pass	JoeWright Cr.	Colo.	Cameron Pass		10300	Roosevelt	10°8	37.0	48.8	11.0	8.3	13.8
N		Poudre River	=	Chambers Lake	6-711-75W	0006	=	16.3	12.1	25.2	7.4		5.9
2	Big South	=	=	Smi.E.Chambers L.33-8N-75W	33-8N-75W	8600	=	5.8	4.5	7.5	1.2		1.6
50	Deadman Hill	N.Poudre R.	=	10mi .W.R. Feather	26-10N-75W	10200	=	31.7	32.9	42.2	7.3	0.9	11.6
65	Lake Irene*	Big S.Poudre	=	lmi.SW.Milner P. 8-5N-75W		10600	Ry.Mtn.N.P	148.7	6.4	57.3	13.3	10.3	17.3
99	68 Hour Glass Lake	L.S. Poudre	=	2mi.NW.Pingree P.18-7N-73W	3	9500	Roosevelt	21.0	8.5	34.5	4.5	2.9	4.6
17	Deadman Hill#2	N.Poudre R.	=	8mi.SW.R.Feather 6-9N-74W		10200	10200 " 26.8 28.0 34.6 5.7	26.8	28.0	34.6	5.7	5.5	8.7
					Average for	for Drainage	age	27.3	25.7	35.3	6.7	5.5	9.8
	BIG THOMPSON												
65	65 Lake Irene*	BigThompson R. Colo.	Colo.	å	8-5N-75W	10600	Ry.Mtn.N.P	148.7	1年。	57.3		10.3	17.3
95	95 Hidden Valley No. 2Hidden Val. Cr.	.2Hidden Val. Cr.	=	9mi.W.Estes D.	23-51-74W	9550	9550 " " " 127.6 23.4 38.4 6.2	27.6	23.4	38.4		4.6	6.6
					Average for	r Drain	age	38.2	34.2	17.8		7.4	13.6
1	St. VRAIN RIVER		,					1		1	,	1	
41	41 Wild Basin	N.St. Vrain R.	00100	5mi.W.Allens P.	24-3N-74W	10000	10000 Ry.Mtn.N.P. 28.3 31.6 41.8	28.3	31.6		9.9	9.1	12.2
1	אמותים מפתיחומת												
5	5 E.Port. Moffat T. S. Boulder Cr.	S.Boulder Cr.	Colo	East Portal	2-25-74W	001/6	9400 Roosevelt	7 6	89	11.6	-	-	3.3
8	60 University Camp#2	N.Boulder Cr.	=	5mi.SW.Ward	28-1N-73W	103001		34.4	27.8	34.4 27.8 44.4 10.0		7.2	15.5
					Average for Drainage	r Drain		21.9	17.3	28.0	-		h-6

\*On adjacent drainage



MISSOURI AND ARKANSAS RIVER WATERSHEDS

Summary of Federal and State Gooperative Snow Surveys

			penss	Issued February 10, 1943, at Fort Collins, Colo.	, at Fort C	ollins,	Colo.						
-	Main Drainage	Local		Location		Elev.	Elev. National	Feb.	1 Sno	W COV	Feb. 1 Snow Cover Measurements	sureme	ents
	and	Drainage	State	Locality	Descrip-			Av. S	now D	epth .	Av. Snow Depth Av. Water Content	er Col	tent
No	No. Snow Course				tion			Av.@	1942	1943	Av.@ 1942 1943 Av.@ 1942 1943	1942	1943
-								In.	In. In. In. In.	In.		In.	In.
	CLEAR CREEK												
19	61 Loveland Pass #2 Clear Greek	Clear Creek	Colo.	Colo. 10mi.W.Georgetown27-45-76W	27-45-76W	10100	10100 Arapahc	29.5	29.5	38.9	29.5 29.5 38.9 5.9 4.8	4.8	9.8
97	97 Grizzly Peak*	=	=	lmi.W.Loveland P 2-55-76W	2-58-76W	11250	=	9.44	34.0	55.3	11.6	7.9	15.3
					96	for Drainage	1	37.0	31.8	47.1	03	4.9	12.6
	ARKANSAS RIVER												
19	19 Tennessee Pass	Tennessee Cr.	Colo	Tennessee Pass	21-85-80W	10200	10200 Gochetopa 25.2 26.4 32.9 4.6	25.2	4.92	32.9	4.6	5.1	6.7
72	Twin Lakes Tun.	Lake Creek	=	9mi.W.Twin Lakes	22-11S-82W	10500	=	27.0	25.4	30.2	6.3	5.0	7.7
142	Marshall Creek*	Poncha Cr.	SE.	Marshall Pass	24-48N-6E	10800	=	32.6	30.6	14.1	7.3	†.9	9.5
43	Poncha Creek	==	=	=	19-48N-7E	10500	=	26.5	23.5	35.7	6.8	6.1	8.0
72	72 Whiskey Creek #2 Whiskey Gr.	Whiskey Cr.	=	Whiskey Cr.Pass	37 - 2N105 - 2W	10300	MaxwellGr.	15.5	6.2	18.1	3.00	7.1	3.5
77	LaVota Pass #2*	Cuchara Cr.	=	LaVeta Pass	22-28S-70W	9300	SanCristoGr	20.8	16.7	22.2	4.5	2.5	5.1
78	78 Four Mile Park#2 Lako Creek	Lako Creek	=	3mi . SW. Twin L.	23-118-81W	9700	Cochetopa	12.6	1	11.3	2.5	1	3.0
79	9 Fremont Pass #2 E.Fork Ark.R.	E. Fork Ark. R.	=	Fremont Pass		11/100	Arapaho 1	10.8	42.3	53.4	₩.8 ₩.	8.1	12.4
92	92 Monarch Pass	S.Fork Ark.R.	=	Wonarch Pass	16-49N-6E	10500	Cochetopa	50.5	76.2	61.1	10.6	8.9	13.0
					Average	for Drainage	inage	29.9	27.2	37.2	6.5	5.5	8.3

@Average for period of record \*On adjacent drainage

